

Notice of Allowability	Application No.	Applicant(s)	
	09/833,734	SHIROSAKI ET AL.	
	Examiner	Art Unit	
	Julio J. Maldonado	2823	
The MAILING DATE of this communication app ars on the cover sheet with the correspond nce address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>amendments filed on 04/01/2004</u> .			
2. The allowed claim(s) is/are <u>6-9,13-16 and 19-22</u> .			
3. The drawings filed on 13 April 2001 are accepted by the Examiner.			
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some* c) None of the:</li> <li>1.  Certified copies of the priority documents have been received.</li> <li>2.  Certified copies of the priority documents have been received in Application No</li> <li>3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
<ul> <li>6. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.</li> <li>(a) including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> <li>7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.</li> </ul>			
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5.  Notice of Informal Pa 6.  Interview Summary ( Paper No./Mail Date 7.  Examiner's Amendm 8.  Examiner's Stateme 9.  Other	(PTO-413), e nent/Comment	,

Application/Control Number: 09/833,734

Art Unit: 2823

## **DETAILED ACTION**

- 1. The cancellation of claims 1-5, 10-12, 17 and 18 is acknowledged.
- 2. The rejection as set forth in Office Action mailed on 01/13/2004 is withdrawn in view of applicants' amendments.
- 3. Claims 6-9, 13-16 and 19-22 are pending in the present application.

## Allowable Subject Matter

- 4. Claims 6-9, 13-16 and 19-22 are allowed.
- 5. The following is an examiner's statement of reasons for allowance: the prior art of record, DeBoer et al. to U.S. 6,046,093 teach roughening an outer wall of an amorphous silicon outer wall of a cylindrical portion of a storage node by forming silicon grains in the outer surface of it (column 4, line 7 column 5, line 65 and column 7, lines 19-30). However, DeBoer et al. teach transforming the remaining amorphous silicon at that moment during the manufacturing of the semiconductor device or at a later stage of the process which is opposed to "wherein said method for producing a semiconductor device is performed such that the inner wall of the cylindrical portion having the roughened outer wall remains in a form of said amorphous silicon" as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2823

## **Conclusion**

6. Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is 571-272-2800. See MPEP 203.08.

- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Julio J. Maldonado whose telephone number is (571) 272-1864. The examiner can normally be reached on Monday through Friday.
- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri, can be reached on (571) 272-1855. The fax number for this group is 703-872-9306 for before final submissions, 703-872-9306 for after final submissions and the customer service number for group 2800 is (703) 306-3329. Updates can be found at http://www.uspto.gov/web/info/2800.htm.

Julio J. Maldonado Patent Examiner Art Unit 2823

Julio J. Maldonado June 10, 2004

George Fourson
Primary Examiner